

Model Examinations of the School Book

Model

1

Answer the following questions :

1 Choose the correct answer :

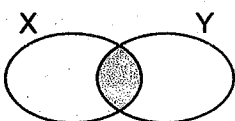
(1) The triangle whose measures of its angles are 50° , 90° and 40° is (a acute-angled triangle *or* an obtuse-angled triangle *or* a right-angled triangle *or* otherwise)

(2) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$ (1 *or* 10 *or* 11 *or* 111)

(3) If $\{7, 10\} \subset \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 *or* 4 *or* 5 *or* 6)

(4) $3.75 \times 1\,000 = \dots\dots\dots$ (0.375 *or* 0.0375 *or* 3750 *or* 37.5)

(5) $\frac{1}{2} \square \frac{1}{3}$ (< *or* > *or* = *or* ≤)

(6)  The shaded part is

($X \cap Y$ *or* $X \cup Y$ *or* $X - Y$ *or* $X \subset Y$)

(7) $55.241 \times 100 \square 522.41 \times 10$ (< *or* > *or* = *or* ≤)

(8) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 *or* 2 *or* 3 *or* $\frac{3}{2}$)

(9) 43 day \approx (to the nearest week) (4 *or* 6 *or* 5 *or* 7)

(10) Any chord passing through the centre of a circle is called (a diameter *or* a radius *or* a side *or* otherwise)

(11) $\{52\} \dots\dots\dots \{5, 2\}$ (\in *or* \notin *or* \subset *or* $\not\subset$)

(12) $12.3 \times \dots\dots\dots = 1230$ (10 *or* 100 *or* 1000 *or* 10000)

(13) $Y = \{2, 4, 6\} \cap \{1, 2, 3\}$, then 6 Y (\in *or* \notin *or* \subset *or* $\not\subset$)

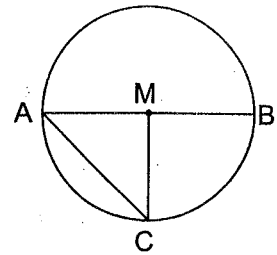
(14) $\frac{5}{8} \square 0.5734$ (< *or* > *or* = *or* ≤)

2 Complete each of the following :

(15) In the opposite figure :

[a] $MA = \dots\dots\dots = \dots\dots\dots$

[b] The longest chord in the circle is $\dots\dots\dots$



(16) $\frac{4}{12} \div \frac{6}{12} = \dots\dots\dots$

(17) The probability of the sure event = $\dots\dots\dots$

(18) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$

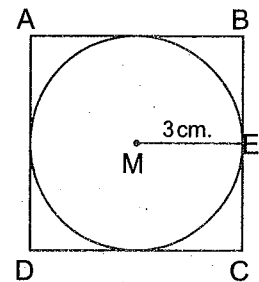
(19) 2.4 decimetre = $\dots\dots\dots$ cm.

(20) In the opposite figure :

If $ME = 3$ cm. ,

then the perimeter

of the square = $\dots\dots\dots$ cm.



(21) $65.384 - \dots\dots\dots = 65$

(22) $\frac{3}{25} \div \dots\dots\dots = \frac{25}{3}$

3 Answer the following :

(23) Draw the triangle ABC where

$AB = 4$ cm. , $BC = 6$ cm. and $CA = 8$ cm.

, then draw a circle its centre is B and its radius length is 4 cm.

(24) From the table , find the probability that a pupil plays basketball :

Game	Football	Basketball	Handball
Number of pupils	50	40	10

(25) Arrange in a descending order :

$5\frac{1}{2}$, $6\frac{1}{4}$, $5\frac{3}{4}$ and $5\frac{2}{5}$

(26) Find the width of a rectangle whose area is 10.25 metre square and its length is 4.1 metres , then find its perimeter.

Model 2

Answer the following questions :

1 Choose the correct answer :

(1) $3.36 \text{ km.} = \dots\dots\dots \text{ m.}$ (3.36 or 33.6 or 336 or 3360)

(2) $9 \frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth)
(0.9 or 9.2 or 9.1 or 9)

(3) $\frac{5}{6} \div 1 \frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

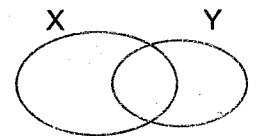
(4) $0.312 \times 100 \square 312 \div 100$ ($>$ or $<$ or $=$ or \leq)

(5) The smallest number from the following is
(0.111 or 0.12 or 0.123 or 1.023)

(6) $10 \times 4.72 \square 100 \times 0.472$ ($<$ or $>$ or $=$ or otherwise)

(7) $\frac{3}{5} \times 1.6 > 1.6 \times \dots\dots\dots$ (0.6 or 1.6 or $\frac{5}{3}$ or 0.3)

(8) The shaded part represents

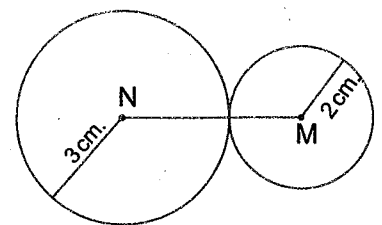


($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(9) If $Y = \{2, 3, 5\} \cap \{1, 3, 5\}$, then $\{1, 2\} \dots\dots\dots Y$
(\subset or $\not\subset$ or \in or \notin)

(10) In the opposite figure :

$MN = \dots\dots\dots \text{ cm.}$



(2 or 3 or 6 or 5)

(11) The length of the diameter of any circle \square the length of any chord in it does not passing through the centre
($>$ or $<$ or $=$ or \leq)

(12) $\{0\} \dots\dots\dots \{1, 2, 5, 8\}$ (\subset or $\not\subset$ or \in or \notin)

(13) The number $736.592 \approx 736.59$ to the nearest
(tenth or hundredth or thousandth)

(14) If $\frac{2}{3} = \frac{16}{C}$, then the value of $C = \dots\dots\dots$ (2 or 3 or 12 or 24)

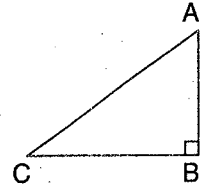
2 Complete each of the following :

(15) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail =

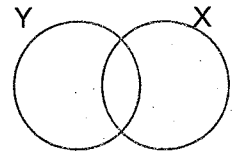
(16) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(17) In the opposite figure :

The corresponding height
of the base \overline{BC} is



(18) The shaded part
represents



(19) A circle its radius length = 1 cm. ,
then its diameter length = cm.

(20) $4.6798 \approx \dots\dots\dots$ (to the nearest thousandth)

(21) $2\frac{1}{4} \times \frac{\dots\dots\dots}{\dots\dots\dots} = 1$

(22) $3978 \div \dots\dots\dots = 3.978$

3 Answer the following :

(23) If $U = \{x : x \text{ is an odd number } < 15\}$, $X = \{1, 3\}$ and
 $Y = \{1, 5, 9, 13\}$, draw a Venn diagram that represents the sets
 U , X and Y , then find $X \cap Y$

(24) Draw a circle M of radius length 2.5 cm. , then draw the diameter \overline{AB}
and the chord \overline{AC} of length 3 cm. Join \overline{BC} , then measure its length

(25) A box contains identical balls where 5 balls are white , 9 red and
6 black. If one ball is chosen randomly , what is the probability that
the chosen ball is white ?
.....

(26) A rectangle , its length is 4.1 cm. and its width is 3.5 cm. ,
calculate its area.
.....

Model examination for the special needs students

Answer the following questions :

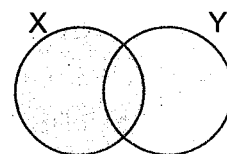
1 Choose the correct answer :

(1) $\frac{1}{3} \times \frac{3}{4} = \dots\dots\dots$ ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$)

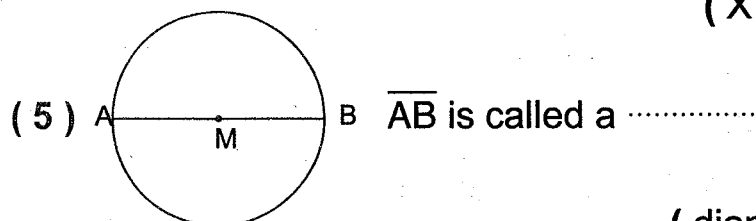
(2) If $3 \in \{x, 5\}$, then $x = \dots\dots\dots$ (5 or 3 or 8)

(3) $312 \div 10 = \dots\dots\dots$ (3.12 or 0.312 or 31.2)

(4) The shaded part
is $\dots\dots\dots$



($X \cup Y$ or $X \cap Y$ or $X - Y$)



(5) \overline{AB} is called a $\dots\dots\dots$

(diameter or radius or side)

(6) $14.4 \times 10 \square 144$ ($>$ or $<$ or $=$)

(7) In any triangle, there are $\dots\dots\dots$ heights. (1 or 2 or 3)

(8) $\{5\} \dots\dots\dots \{5, 8\}$ (\subset or \notin or $\not\subset$)

(9) When tossing a coin once, the probability of appearing a tail = $\dots\dots\dots$
(1 or $\frac{1}{2}$ or $\frac{1}{4}$)

(10) $\frac{1}{2} = \dots\dots\dots$ (5 or 0.5 or 0.05)

2 Use the following answers to complete the questions below :

($\frac{1}{6}$, 12.1, 2, 4.9, $\{1, 5\}$)

(1) $4.85 \approx \dots\dots\dots$ (to the nearest tenth)

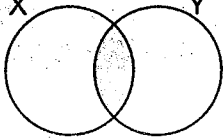
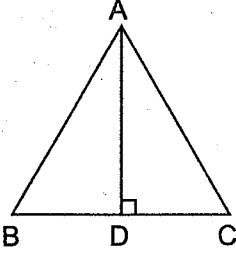
(2) When tossing a die once, the probability of appearing the
number 3 = $\dots\dots\dots$

(3) $48.4 \div 4 = \dots\dots\dots$

(4) A circle of diameter length = 4 cm., then its radius length = $\dots\dots\dots$ cm.

(5) If $X = \{1, 2, 5, 7\}$, $Y = \{1, 5, 3\}$, then $X \cap Y = \dots\dots\dots$

3 Match :

A	
(1)	 <p>The shaded part is</p>
(2)	$\frac{1}{2}$ <input type="checkbox"/> $\frac{1}{3}$
(3)	$4 \frac{25}{100} \approx \dots\dots\dots$ (to the nearest tenth)
(4)	The probability that Samir win a match is $\frac{1}{2}$, then the probability of loss =
(5)	 <p>\overline{AD} is called</p>

B
$>$
$\frac{1}{2}$
$X \cap Y$
altitude
4.3

Some Schools' Examinations from Different Governorates

1 Cairo Governorate

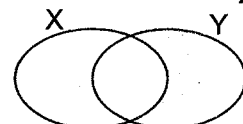
East Nasr City Educational Zone
Al-Ola Language Modern School



Answer the following questions :

1 Choose the correct answer :

- (1) $22.22 \div 2 = \dots\dots\dots$ (11.11 or 10.01 or 22.22 or 1.111)
- (2) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 = $\dots\dots\dots$
({2, 3, 12, 6} or {3, 6} or {4, 6} or {2, 3, 6})
- (3) $1\frac{1}{2} \div \frac{1}{4} = \dots\dots\dots$ (2 or 6 or 12 or $\frac{3}{8}$)
- (4) If the probability of pupil's success is $\frac{8}{10}$, then the probability of his failure is $\dots\dots\dots$
($\frac{1}{8}$ or $\frac{3}{10}$ or $\frac{1}{5}$ or 1)
- (5) $8.25 \div 8 \approx \dots\dots\dots$ (to the nearest tenth)
(101 or 1 or 1.01 or 10.1)
- (6) The longest chord in a circle is called a $\dots\dots\dots$
(chord or radius or tangent or diameter)
- (7) 5 hours + 29 minutes + 60 seconds = $\dots\dots\dots$ hours.
(5 or 5.3 or $5\frac{1}{2}$ or 6)
- (8) If $\{7, 10\} \subset \{10, x + 3\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 10)
- (9) The smallest fraction in the following is $\dots\dots\dots$
($\frac{1}{3}$ or $\frac{5}{8}$ or $\frac{2}{9}$ or $\frac{2}{5}$)
- (10) $\frac{1}{25} \times 50 \times 0.25 = \dots\dots\dots$ (4 or $\frac{1}{4}$ or $\frac{1}{2}$ or 2)
- (11) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 or $\frac{1}{2}$ or 3 or $\frac{3}{2}$)
- (12) In any triangle , the number of its altitudes = $\dots\dots\dots$
(1 or 2 or 3 or 4)
- (13) The shaded part represents $\dots\dots\dots$



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(14) $10 \times 4.72 \square 100 \times 0.472$

(< or > or =)

2 Complete :

- (15) If $X = \{2, 5, 4\} \cap \{5, 3, 7\}$, then 1 $\dots\dots\dots$ X
- (16) A circle is of diameter length 28 cm.
 , then its radius length = $\dots\dots\dots$ cm.

- (17) 3.26 m. = km.
 (18) The probability of the sure event is
 (19) If $X \subset Y$, then $X - Y =$
 (20) 3 the set of factors of the number 18
 (21) The number of days in 254 hours equals approximately
 (22) $8.43 \times 0.9 =$ \approx (to the nearest $\frac{1}{100}$)

3 Answer the following :

- (23) A bag contains 5 white balls , 9 red balls and 6 black balls. All the balls are identical and equal in size. If a ball is drawn randomly. What is the probability that the drawn ball is :

[a] White ?

[b] Not red ?

- (24) Draw the triangle ABC in which
 AB = 3 cm. , BC = 4 cm. and
 AC = 5 cm. , then draw the circle M
 whose diameter is \overline{AC}

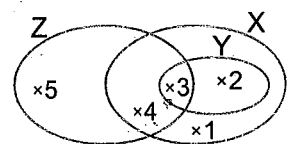
- (25) The length of a piece of cloth is 9.25 m. , 12 towels are made of it and the length of towel is 0.75 m. How many metres are remainder ?

- (26) Use the opposite Venn diagram to write each of the following sets :

[a] $X \cap Y =$

[b] $X \cup Y =$

[c] $Z - (X \cap Y) =$



2 Cairo Governorate

Maadi Educational Directorate
 Victory College Maadi



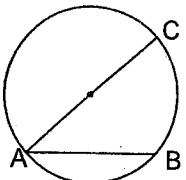
Answer the following questions :

1 Choose the correct answer :

- (1) $71.5 \div$ = 0.715 (10 or 100 or 1000 or 10000)

- (2) If $9 \in \{3, 5, x\}$, then $x = \dots\dots\dots$ (3 or 5 or 7 or 9)
- (3) The number of altitudes of any triangle = $\dots\dots\dots$ (1 or 2 or 3 or 4)
- (4) 2600 gm. $\approx \dots\dots\dots$ kg. (to the nearest kg.) (2 or 3 or 4 or 6)
- (5) $2\frac{4}{5} \square 2.16$ ($>$ or $<$ or $=$ or \leq)
- (6) If $X = \{1, 2\}$ and $Y = \{5\}$, then $X \cup Y = \dots\dots\dots$
($\{1, 2, 5\}$ or $\{1, 5\}$ or \emptyset or $\{2\}$)
- (7) $55 \dots\dots\dots \{5, 505\}$ (\in or \notin or \subset or $\not\subset$)

2 Choose the correct answer :

- (1) $5.037 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$) (5 or 5.0 or 5.03 or 5.04)
- (2) $\emptyset \dots\dots\dots \{2, 4, 6\}$ (\in or \notin or \subset or $\not\subset$)
- (3) $1.8 \times 5 = \dots\dots\dots$ (9 or 9.5 or 1.85 or 18.5)
- (4) $98.7 \times 100 = \dots\dots\dots$ (9.87 or 987 or 9870 or 0.987)
- (5) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or $X - Y$)
- (6)  , \overline{AB} is called $\dots\dots\dots$
(radius or diameter or chord or circle)
- (7) $54.523 \approx 54.5$ (to the nearest $\dots\dots\dots$)
($\frac{1}{1000}$ or $\frac{1}{10}$ or $\frac{1}{100}$ or $\frac{1}{10000}$)

3 Complete :

- (1) When tossing a die once, the probability of appearing an odd number = $\dots\dots\dots$
- (2) $1\frac{2}{3} \times 1\frac{1}{5} = \dots\dots\dots$
- (3) Any chord passing through the centre of the circle is called $\dots\dots\dots$
- (4) If $\{2, a\} = \{7, b\}$, then $a = \dots\dots\dots$ and $b = \dots\dots\dots$
- (5) A circle of diameter length 3 cm., then its radius length = $\dots\dots\dots$ cm.
- (6) $25.25 \div 0.25 = \dots\dots\dots$
- (7) If $\{3\} \subset \{x + 1, 5\}$, then $x = \dots\dots\dots$
- (8) $25.71 + 3.5 = \dots\dots\dots$

4 [a] Find the result of :

$0.675 \times 2.3 = \dots \approx \dots$ (to the nearest thousandth)

[b] A box contains identical balls , 6 balls are white , 9 red and 4 yellow.

Find the probability that the chosen ball is :

(1) Red =

(2) Not yellow =

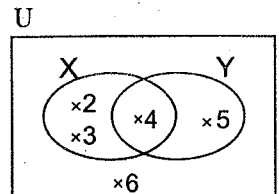
5 [a] From the opposite figure, find :

(1) $X \cup Y = \dots$

(2) $X \cap Y = \dots$

(3) $Y - X = \dots$

(4) $X^c = \dots$



[b] Draw the triangle ABC in which

AB = BC = 6 cm. and AC = 4 cm.

3 Cairo Governorate

El-Nozha Educational Zone
El-Nasr Schools



Answer the following questions :

1 Choose the correct answer :

(1) $674.8 \div \dots = 67.48$ (100 or 10 or 1000 or 10000)

(2) If $7 \in \{2, 3, x - 1\}$, then $x = \dots$ (7 or 6 or 8 or 3)

(3) $3.43 \approx 3.4$ is approximated to the nearest
(ten or unit or 0.01 or $\frac{1}{10}$)

(4) The radius length of a circle equals the diameter length.
(twice or half or double or $\frac{1}{3}$)

(5) $97.2 \div 9 = \dots$ (1.8 or 1.08 or 10.8 or 108)

(6) The altitudes of the triangle intersect at point(s).
(1 or 2 or 3 or 4)

(7) 1.2 kg. = gm. (12 or 120 or 1200 or 0.012)

(8) If $\frac{2}{23} < \frac{x}{23} < \frac{4}{23}$, then $x = \dots$ (3 or 4 or 5 or 6)

(9) $\{5, 7, 9\} \cup \{3, 4, 5\} = \dots\dots\dots$

($\{7, 9\}$ or $\{5\}$ or $\{3\}$ or $\{3, 4, 5, 7, 9\}$)

(10) $4\frac{1}{2} \times \dots\dots\dots = 1$

($\frac{1}{2}$ or $\frac{9}{2}$ or 2 or $\frac{2}{9}$)

(11) If $\{3, 5\} = \{x, 3\}$, then $x = \dots\dots\dots$

(3 or 5 or 2 or 4)

(12) $\frac{1}{2} \div \frac{1}{12} = \dots\dots\dots$

($\frac{1}{24}$ or 24 or 12 or 6)

(13) $\{9, 11, 13\} - \{3, 11, 14\} = \dots\dots\dots$

($\{5, 2\}$ or $\{3\}$ or $\{11\}$ or $\{9, 13\}$)

(14) $\frac{21}{7} \dots\dots\dots \{1, 3, 5, 7\}$

(\in or \notin or \nsubseteq or \subset)

2 Complete each of the following :

(15) $\frac{2}{3} \approx \dots\dots\dots$ (to the nearest tenth)

(16) $X \cap X^c = \dots\dots\dots$

(17) If $\frac{7}{14} = \frac{x}{2}$, then $x = \dots\dots\dots$

(18) The diameter is a $\dots\dots\dots$ passing through the $\dots\dots\dots$

(19) $1.7 \times 0.04 = \dots\dots\dots$

(20) When tossing a coin once , then the probability of appearing a head = $\dots\dots\dots$

(21) The altitudes of the obtuse-angled triangle intersect at one point $\dots\dots\dots$ the triangle.

(22) $\{1, 2, 3\} \cup \{3, 8\} = \dots\dots\dots$

3 Answer the following :

(23) In a school there are 400 pupils , 173 of them are boys , the rest are girls. Find the probability of chosen pupil is girl.

$\dots\dots\dots$

(24) Find a number when multiplied by 0.25 , then the product is 3.25

$\dots\dots\dots$

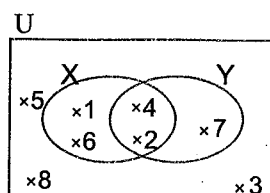
(25) Look at Venn diagram , then find :

[a] $X - Y = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$

[c] $Y^c = \dots\dots\dots$

[d] $(X \cup Y)^c = \dots\dots\dots$



- (26) Draw a circle M whose radius length is 4 cm. , where \overline{MA} is a radius , then draw the chord \overline{AB} , where $AB = 5$ cm. Find the type of $\triangle AMB$ according to its side lengths.

4 Cairo Governorate

Rod El-Farag Educational Zone
St. Mary's School



Answer the following questions :

1 Choose the correct answer :

- (1) If $4 \in \{1, 2, 2x\}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)
 (2) $\{7, 8\} \dots\dots\dots \{5, 7, 10\}$ (\in or \subset or \notin or $\not\subset$)
 (3) In any triangle, the number of its altitudes = $\dots\dots\dots$ (1 or 2 or 3 or 4)
 (4) Any chord passing through the centre of a circle is called $\dots\dots\dots$
 (diameter or radius or chord or otherwise)
 (5) $\{32\} \dots\dots\dots \{3, 2\}$ (\in or \subset or \notin or $\not\subset$)
 (6) $2\frac{1}{3} \div \frac{5}{3} = \dots\dots\dots$ ($\frac{7}{5}$ or $\frac{5}{7}$ or $\frac{3}{7}$ or $\frac{5}{2}$)
 (7) $9\frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.11 or 9.1)
 (8) $\{2, 3, 6, 12\} \cap$ the set of factors of the number 6 = $\dots\dots\dots$
 ($\{3, 6\}$ or $\{4, 6\}$ or $\{2, 3, 6\}$ or $\{2, 3, 6, 12\}$)
 (9) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$ (1 or 10 or 11 or 111)
 (10) $\frac{5}{8} \square 0.5734$ ($>$ or $=$ or $<$ or \leq)
 (11) $0.472 \times 100 \square 4.72 \times 10$ ($>$ or $=$ or $<$ or otherwise)
 (12) $(2\frac{1}{4} + \frac{3}{4}) \div \frac{3}{7} = \dots\dots\dots$ (2 or 5 or 7 or 20)

2 Complete the following :

- (13) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$
 (14) $\{2, 3, 5\} \cap \{1, 3, 5\} = \dots\dots\dots$
 (15) $4.86 \div 0.9 = \dots\dots\dots$

(16) $\frac{3}{25} \div 0.012 = \dots\dots\dots$

(17) The probability of the sure event = $\dots\dots\dots$

(18) The altitudes in obtuse-angled triangle intersect at the point that $\dots\dots\dots$

(19) $(7.65 - 3.4) \times 100 = \dots\dots\dots$

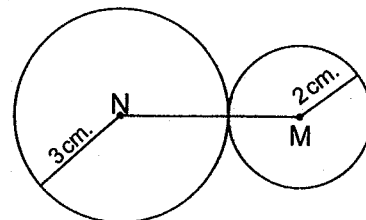
(20) If $\{6, a, 2\} = \{b, 3, 2\}$, then $a = \dots\dots\dots$, $b = \dots\dots\dots$

(21) $2.345 \times 0.14 \approx \dots\dots\dots$ (to the nearest hundredth)

(22) In the opposite figure :

M, N are two circles, then

MN = $\dots\dots\dots$ cm.



3 Answer the following :

(23) A box contains 18 cards numbered from 1 to 18. Randomly a card has been selected. Calculate the probability of selecting :

[a] A prime number.

[b] A number divisible by 5

(24) If the price of one metre of cloth is L.E. 3.25, what is the cost of 2.5 metres of cloth ?

(25) If $U = \{1, 2, 3, 4, 5, 6, 7, 8\}$

, $X = \{1, 3, 4, 7\}$, $Y = \{1, 2, 3, 6\}$

Draw a Venn diagram that represents

the sets U , X and Y and then find : $X \cap Y$

$X \cap Y = \{\dots\dots\dots\}$

(26) Draw the ΔABC where $AB = 4$ cm.

, $BC = 3$ cm. and $CA = 5$ cm.

, then draw its altitudes.

What is the type of ΔABC according to its sides.

5 Cairo Governorate

Al-Khalifa and Al-Mokatam Educational Zone
AL Helmia Experimental Lang. School



Answer the following questions :

1 Choose the correct answer :

- (1) $3.75 \times 100 = \dots\dots\dots$ (0.375 or 375 or 3705 or 0.0375)
 (2) If $7 \in \{6, x + 1\}$, then $x = \dots\dots\dots$ (6 or 7 or 8 or 5)
 (3) Number of altitudes of the right-angled triangle is $\dots\dots\dots$
 (0 or 1 or 2 or 3)
 (4) $\{1, 3\} \cap \{2, 3\} = \dots\dots\dots$ (\emptyset or $\{3\}$ or $\{1\}$ or $\{1, 2, 3\}$)
 (5) 52 days $\approx \dots\dots\dots$ weeks. (6 or 8 or 7 or 5)
 (6) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset or \bar{X})
 (7) $625 \div 25 = 6.25 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 250)

2 Choose the correct answer :

- (8) $\frac{1}{3} \div \frac{2}{7} = \dots\dots\dots$ ($1\frac{1}{6}$ or $\frac{6}{7}$ or $\frac{2}{21}$ or $\frac{13}{21}$)
 (9) $\{7\} \dots\dots\dots \{3, 5, 7\}$ (\in or \notin or \subset or $\not\subset$)
 (10) 40 gm. = $\dots\dots\dots$ kg. (40000 or 0.4 or 4000 or 0.04)
 (11) If $\frac{a}{8} = \frac{15}{24}$, then $a = \dots\dots\dots$ (9 or 5 or 3 or 10)
 (12) Number of subsets of the set $A = \{3, 5\}$ is $\dots\dots\dots$
 (4 or 3 or 2 or 1)
 (13) The triangle whose measures of its angles are $(20^\circ, 100^\circ, 60^\circ)$
 is called $\dots\dots\dots$ triangle.
 (acute-angled or right angled or obtuse-angled or isosceles)
 (14) If $\frac{5}{7} < \frac{x}{7} < 1$, then $x = \dots\dots\dots$ (4 or 5 or 6 or 7)

3 Complete each of the following :

- (15) $12.34 + 15.172 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest hundredth)
 (16) $\{1, 2, 4\} - \{2, 4, 6\} = \dots\dots\dots$

- (17) The probability of the certain event is
- (18) The radius length of a circle whose its diameter length is 5 cm. is cm.
- (19) If $\{2, x\} = \{5, y\}$, then $x = \dots\dots\dots$, $y = \dots\dots\dots$
- (20) The longest chord in the circle is called
- (21) $4.7896 \approx \dots\dots\dots$ (to the nearest thousandth)
- (22) $8855 \div 253 = \dots\dots\dots$

4 Answer the following :

- (23) Arrange in an ascending order :

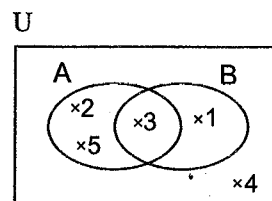
$$0.6, \frac{3}{4}, \frac{1}{2} \text{ and } \frac{2}{3}$$

The order is :,, and

- (24) By using the opposite figure , find :

[a] $A \cup B = \dots\dots\dots$

[b] $\hat{A} = \dots\dots\dots$



- (25) A die tossed once , find the probability of getting :

[a] An even number.

[b] A number divisible by 3

- (26) Draw $\triangle ABC$ where

$BC = 8 \text{ cm.}, AB = AC = 5 \text{ cm.}$

6 Cairo Governorate

Western Cairo Educational Zone
Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

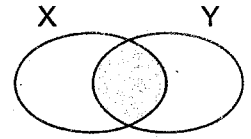
(1) $3.36 \text{ km.} = \dots\dots\dots \text{ m.}$ (3.306 or 33.6 or 336 or 3360)

(2) $52.241 \times 100 = \dots\dots\dots$
(522.41 or 52241 or 5224.1 or 522410)

(3) $\{52\}$ $\{5, 2\}$ (\in or \notin or \subset or $\not\subset$)

(4) $\frac{5}{8}$ 0.5734 ($<$ or $>$ or $=$ or otherwise)

(5) The shaded part



($X \cap Y$ or $X \cup Y$ or $X - Y$ or $X \subset Y$)

(6) A circle , its radius length = 1 cm. , then its diameter length = cm.

(1 or 2 or 3 or 4)

(7) $\frac{1}{3} \times \frac{3}{4} =$ ($\frac{1}{3}$ or $\frac{1}{2}$ or $\frac{1}{4}$ or $\frac{4}{12}$)

(8) If $3 \in \{x + 1, 5\}$, then $x =$ (1 or 2 or 3 or 4)

(9) $\frac{4}{12} \div \frac{6}{12} =$ ($\frac{2}{3}$ or $\frac{4}{3}$ or $\frac{1}{12}$ or $\frac{4}{12}$)

(10) $\{1, 3, 4\} - \{3, 4\} =$ ($\{1\}$ or $\{3\}$ or $\{4\}$ or $\{3, 4\}$)

(11) If $a \in X$, then a \bar{X} (\in or \notin or \subset or $\not\subset$)

(12) The right-angled triangle has altitudes. (1 or 2 or 3 or 4)

(13) If $\frac{2}{3} = \frac{a}{12}$, then $a =$ (3 or 4 or 8 or 12)

(14) $46.762 \approx$ (to the nearest hundredth)

(46.762 or 46.8 or 47 or 46.76)

2 Complete the following :

(1) The probability of the certain event =

(2) All the radii of the circle are

(3) $3978 \div$ = 3.978

(4) $84.61 + 23.473 =$

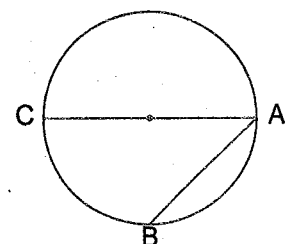
(5) \emptyset $\{0\}$

(6) In the opposite figure :

\overline{AB} is called of the circle.

(7) The set of the digits of the number 7353 is

(8) $2.64 \times 0.2 =$



3 Answer the following :

(1) A box contains identical balls where 6 balls are white , 9 red balls and 5 black balls. If one ball is chosen randomly , what is the probability that the chosen ball is white ?
.....

(2) Arrange in a descending order :

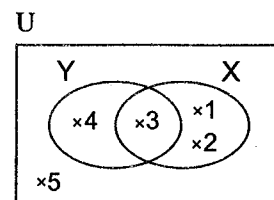
$$4.5 \quad , \quad 4\frac{1}{4} \quad , \quad 5\frac{3}{4} \quad \text{and} \quad 5\frac{1}{2}$$

The order is : , and

(3) From the opposite Venn diagram , find :

[a] $X \cup Y = \dots\dots\dots$

[b] $\bar{Y} = \dots\dots\dots$



(4) Draw the triangle ABC in which

AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

7 Giza Governorate

Al-Agoza Educational Directorate
Baby Palace Private School



Answer the following questions :

1 Choose the correct answer :

(1) $9\frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(2) $1\frac{1}{8} \div 1\frac{1}{8} = \dots\dots\dots$ (1 or 10 or 11 or 111)

(3) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 or 2 or 3 or $\frac{3}{2}$)

(4) $\frac{5}{8} \square 0.5734$ (> or < or = or \leq)

(5) 43 days $\approx \dots\dots\dots$ weeks (to the nearest week) (4 or 5 or 6 or 7)

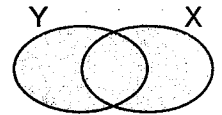
(6) $4.6 \div 4.6 \square 0.1$ (> or < or \leq or =)

(7) The smallest number of the following numbers is

(0.111 or 0.12 or 0.123 or 1.0123)

(8) If $4 \in \{3, 5, x\}$, then $x = \dots\dots\dots$ (3 or 4 or 5 or 6)

(9) The suitable symbol represents the shaded part in the shape is



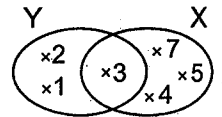
($X \cap Y$ or $X \cup Y$ or $Y \subset X$ or $X \subset Y$)

(10) $\{50\}$ $\{2, 5\}$

(\in or \notin or \subset or $\not\subset$)

(11) In the opposite figure :

$Y \cap X =$



($\{7, 5, 4\}$ or $\{1, 2\}$ or $\{3\}$ or $\{1, 2, 3\}$)

(12) If X is the set of odd numbers , then 36 X

(\in or \notin or \subset or $\not\subset$)

(13) The number of altitudes of an acute-angled triangle is

(1 or 2 or 3 or 4)

(14) The triangle whose measures of its angles are $(50^\circ, 90^\circ, 40^\circ)$ is called triangle.

(an acute-angled or an obtuse-angled or a right-angled or otherwise)

2 Complete :

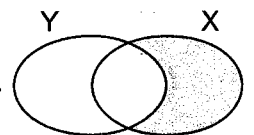
(1) If $\frac{b}{8} = \frac{15}{24}$, then b =

(2) $3978 \div \dots = 3.978$

(3) The number $4.7398 \approx \dots$ (to the nearest hundredth)

(4) If X , Y are two sets , $X \subset Y$, then $X \cap Y =$

(5) The shaded part in the opposite figure represents



(6) Length of diameter of the circle whose radius length is 1 cm.
= cm.

(7) The longest chord in the circle is the

(8) The probability of appearing a head when tossing a coin once =

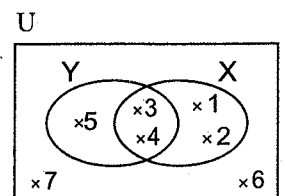
3 Answer the following :

(1) Find : $1.775 \times 0.15 =$

(2) In the opposite figure , complete :

[a] $X \cap Y =$

[b] $\bar{X} =$



(3) In tossing a fair die once , then complete :

[a] Probability of appearing an odd number =

[b] Probability of appearing a number greater than 6 =

8 Giza Governorate

El-Haram Zone
Al-Mostakbal Modern Language School



Answer the following questions :

1 Choose the correct answer :

(1) $32.5 \div 100 = \dots\dots\dots$ (0.32 or 0.325 or 3250 or 325.2)

(2) $5.035 \approx \dots\dots\dots$ (to the nearest hundredth)
(5.03 or 500 or 5.04 or 5.3)

(3) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or X')

(4) $327.5 \times 100 = \dots\dots\dots$ (3276 or 32750 or 3.275 or 327500)

(5) $\emptyset \dots\dots\dots \{6, 8\}$ (\in or \notin or \subset or $\not\subset$)

(6) $\frac{1}{2} \square \frac{1}{3}$ (< or = or > or \leq)

(7) The altitudes of the obtuse-angled triangle intersect at one point
the triangle. (inside or on or outside)

(8) $0.4 \times 0.2 = \dots\dots\dots$ (8.00 or 0.08 or 0.8 or 0.042)

(9) $\frac{2}{5} \div \frac{1}{4} = \dots\dots\dots$ ($\frac{5}{8}$ or $\frac{6}{5}$ or $\frac{8}{5}$ or $\frac{2}{3}$)

(10) 6 { 7 , 6 , 8 } (\in or \notin or \subset or $\not\subset$)

(11) The length of the longest chord is 6 cm. , then the length of the radius
of the circle = cm. (6 or 12 or 4.5 or 3)

(12) The set { 1 , 3 , 5 , ... } is set.
(a finite or an infinite or an empty)

(13) $37440 \div 234 = \dots\dots\dots$ (16 or 106 or 160 or 1600)

(14) $\frac{4}{5} \times \frac{1}{3} = \dots\dots\dots$ ($\frac{1}{2}$ or $\frac{12}{5}$ or $\frac{4}{15}$ or $\frac{5}{8}$)

2 Complete the following :

(1) If $\{5, x\} = \{7, y\}$, then $x = \dots\dots\dots$ and $y = \dots\dots\dots$

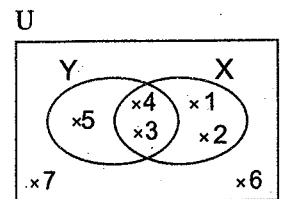
- (2) The probability of the impossible event is
- (3) The longest chord in the circle is called
- (4) $76.25 \div 10 = \dots \approx \dots$ (to the nearest hundredth)
- (5) The number of altitudes of any triangle is
- (6) $\frac{4}{12} \div \frac{5}{12} = \dots$
- (7) If $X = \{2, 3, 5\}$ and $Y = \{3\}$, then $X \cap Y = \dots$
- (8) $9282 \div 221 = \dots$

3 Answer the following :

- (1) Use the opposite Venn diagram to find :

[a] $X \cap Y = \dots$

[b] $\hat{Y} = \dots$



- (2) A box contains 3 white balls , 7 red balls and 5 yellow balls , one ball is chosen randomly. Find the probability of choosing :

[a] Red ball = [b] Green ball =

- (3) If the price of one metre of cloth is 6.45 pounds , what is the price of 2 metres ?

.....

- (4) Draw the circle M of radius length 4 cm.

, then draw the diameter \overline{AB} and the chord $\overline{AC} = 5$ cm.



9 Giza Governorate

Abo El-Nomros Educational Zone
Royal House Language Schools



Answer the following questions :

1 Choose the correct answer :

- (1) $3.75 \times 100 = \dots\dots\dots$ (0.375 or 37.5 or 375 or 0.0375)
- (2) $\frac{1}{2} \square 0.3$ (> or < or =)
- (3) If $\frac{1}{2} = \frac{x}{8}$, then $x = \dots\dots\dots$ (1 or 3 or 4 or 5)
- (4) $1\frac{2}{3} \times 1\frac{1}{5} = \dots\dots\dots$ ($2\frac{3}{8}$ or 2 or $1\frac{7}{18}$ or $\frac{13}{15}$)
- (5) $31.294 \approx 31.3$ (to the nearest $\dots\dots\dots$)
(tenth or hundredth or thousandth or unit)
- (6) The smallest prime number is $\dots\dots\dots$ (1 or 2 or 3 or 0)
- (7) $\frac{2}{5} \div \frac{7}{5} = \dots\dots\dots$ ($\frac{14}{25}$ or $\frac{2}{7}$ or $\frac{7}{2}$ or 2)
- (8) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$ (X or Y or \emptyset)
- (9) $\emptyset \dots\dots\dots \{2, 6, 1, 5\}$ (\in or \notin or \subset or $\not\subset$)
- (10) The set of odd numbers is $\dots\dots\dots$ set.
(a finite or an empty or an infinite or equal)
- (11) If $\{5, 7\} \subset \{x + 2, 5\}$, then $x = \dots\dots\dots$ (2 or 5 or 7 or 3)
- (12) $9 \dots\dots\dots \{19, 9\}$ (\in or \notin or \subset or $\not\subset$)
- (13) If the length of the longest chord in a circle is 13 cm. , then the length of any radius = $\dots\dots\dots$ cm. (26 or 6 or 6.5 or 11)
- (14) The altitudes of the acute-angled triangle intersect at one point $\dots\dots\dots$ the triangle. (inside or outside or at the vertex of right angle)

2 Complete :

- (1) $538.2 + 23.4 = \dots\dots\dots$
- (2) $2.3532 \approx \dots\dots\dots$ (approximate to the nearest $\frac{1}{1000}$)
- (3) $18.8 \div 1000 = \dots\dots\dots$
- (4) All the radii of the circle are $\dots\dots\dots$ in length.
- (5) The number of altitudes of right-angled triangle is $\dots\dots\dots$
- (6) $\{2, 3, 5\} \cap \{2, 3, 4\} = \dots\dots\dots$

(7) All the subsets of the set $\{2, 3\}$ are , ,
and

(8) When tossing a coin once , the probability of appearing a head = $\frac{\dots\dots\dots}{\dots\dots\dots}$

3 Answer the following :

(1) If the price of one metre of cloth is L.E. 45.5 What is the price of 3.5 metres ?
.....

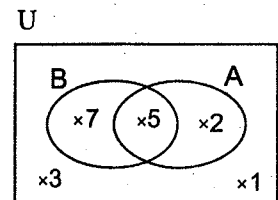
(2) By using the opposite Venn diagram , find :

[a] $A \cap B = \dots\dots\dots$

[b] $A \cup B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $\bar{A} = \dots\dots\dots$



(3) A bag contains 5 red balls , 8 black balls and 6 white balls , all of them are identical and equal in size. A ball is drawn randomly calculate the probability that :

[a] The drawn ball is black =

[b] The drawn ball isn't green =

(4) Draw $\triangle ABC$ in which $AB = BC = CA = 5$ cm.
 , then draw the altitude from A on \overline{BC}

10 Alexandria Governorate

Mid Educational Zone
Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

(1) $\{5, 2\} \dots\dots\dots \{52\}$

(\in or \notin or \subset or $\not\subset$)

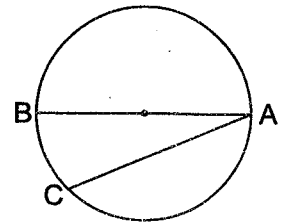
(2) $28.61 \times \dots = 28610$ (10 or 100 or 1000 or 10000)

(3) $\frac{1}{2} \div \frac{9}{4} = \dots$ (in the simplest form) ($\frac{9}{8}$ or $\frac{9}{2}$ or $\frac{2}{9}$ or 1)

(4) $\emptyset \dots \{0\}$ (\in or \notin or \subset or $\not\subset$)

(5) In the opposite figure :

\overline{AC} is called



(radius or diameter or centre or chord)

(6) $4812 \div 1000 \square 0.4812 \times 100$ ($<$ or $>$ or $=$ or \geq)

(7) $42.395 + 53.31 \approx \dots$ (to the nearest $\frac{1}{100}$)

(95.705 or 95.70 or 95.71 or 95.72)

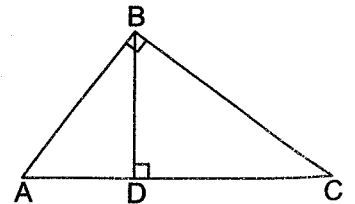
(8) If $5 \in \{x + 3, 7\}$, then $x = \dots$ (2 or 3 or 4 or 5)

(9) $25.25 \div 0.25 = \dots$ (10.1 or 11 or 1.01 or 101)

(10) In the opposite figure :

ABC is right-angled triangle at B

The point of intersection of its altitudes is



(A or B or C or D)

(11) 23 the set of prime numbers. (\in or \notin or \subset or $\not\subset$)

(12) $\frac{5}{9} \times \frac{9}{25} = \dots$ ($\frac{5}{3}$ or $\frac{3}{5}$ or $\frac{1}{5}$ or $\frac{45}{25}$)

(13) If $X \subset Y$, then $X \cap Y = \dots$ (X or Y or \emptyset or \bar{Y})

(14) 5675 grams $\approx \dots$ kilograms. (5 or 6 or 56 or 57)

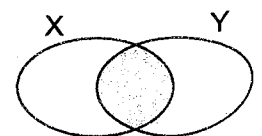
2 Complete :

(1) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots$

(2) $2.7 \times 0.4 = \dots$

(3) The probability of the sure (certain) event =

(4) The shaded part in the opposite figure represents



(5) The altitudes of the obtuse-angled triangle intersect in a point lies the triangle.

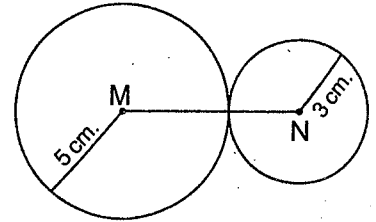
(6) $62.345 + 15.632 = \dots \approx \dots$ (to the nearest tenth)

(7) $\{3, 7, 2, 5\} - \{4, 2, 5, 6\} = \dots$

(8) In the opposite figure :

M and N are two circles

, then the length of \overline{MN} = cm.



3 Answer the following :

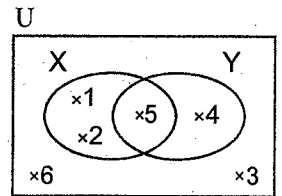
(1) An owner of packing food factory wanted to divide 5904 kg. of sugar equally in 492 packs. What is the weight of each pack ?

.....

(2) From the opposite Venn diagram , find the following :

[a] $X \cup Y = \dots$

[b] $\bar{X} = \dots$



(3) As throwing a fair die once , find the probability of appearing :

[a] An even prime number =

[b] A number divisible by 5 =

(4) Draw the triangle ABC

, where $BC = 6$ cm.

, $AB = AC = 5$ cm.

Draw $\overline{AD} \perp \overline{BC}$

Find the length of \overline{AD}

11 Alexandria Governorate

East Educational Zone
Supervision of Math



Answer the following questions :

1 Choose the correct answer from those between brackets :

(1) $736.592 \approx 736.59$ (to the nearest)

(unit or tenth or hundredth or thousandth)

- (2) 3.002 kilograms = grams.
(30.02 or 300.2 or 3002 or 0.3002)
- (3) If $\frac{2}{5} = \frac{a}{15}$, then a = (5 or 6 or 8 or 10)
- (4) A circle , its radius length = 1 cm. , then its diameter length = cm.
(1 or 2 or 3 or 4)
- (5) $\frac{3}{8}$ 0.5 (< or > or = or ≥)
- (6) $\{2\} \cup \{4\} = \dots\dots\dots$ (24 or \emptyset or {2,4} or 6)
- (7) $1.7 \div 10 = \dots\dots\dots$ (17 or 0.17 or 170 or 0.017)
- (8) The number of altitudes in any triangle =
(1 or 2 or 3 or 4)
- (9) $37.4289 - 14.081 \approx \dots\dots\dots$ (to the nearest thousandth)
(23.350 or 23.348 or 23.248 or 23.347)
- (10) $\{52\} \dots\dots\dots \{5, 2\}$ (\in or \notin or \subset or $\not\subset$)
- (11) $5.45 \div 0.5 = \dots\dots\dots$ (1.9 or 1.09 or 10.9 or 109)
- (12) $98.7 \times 100 = \dots\dots\dots$ (987 or 9870 or 0.987 or 0.0987)
- (13) If $4 \in \{2, x, 5\}$, then $x = \dots\dots\dots$ (2 or 4 or 5 or 6)
- (14) $\frac{2}{7} \div \frac{5}{7} = \dots\dots\dots$ ($\frac{7}{7}$ or $\frac{10}{7}$ or $\frac{2}{5}$ or $\frac{5}{2}$)

2 Complete each of the following :

- (1) 354 metres = cm.
- (2) $\div 9 = 4.5$
- (3) $\{5, 6\} \cap \{4, 5\} = \dots\dots\dots$
- (4) Tossing a regular coin once , the probability of landing a head =
- (5) The longest chord in a circle is called
- (6) $3.6 \times 1.3 = 1.3 \times \dots\dots\dots$
- (7) $3.26 \times 17 = 3.26 \times (7 + \dots\dots\dots)$
- (8) A rectangle , its length is 4.1 cm. and its width is 0.5 cm.
 , then its area is cm^2

3 Answer the following :

- (1) Ahmed bought 12 cans of juice. The price of each can was L.E. 1.75
What is the total cost of juice ?
The total cost of juice =

(2) Arrange the following numbers in an ascending order :

$$\frac{3}{2} , \frac{3}{5} , \frac{3}{8} \text{ and } \frac{3}{4}$$

The order is : , and

(3) Draw a triangle ABC in which

AB = 4 cm. , BC = 5 cm. , AC = 6 cm.

(4) If the probability of a pupil succeed in an exam is $\frac{8}{10}$
 , find the probability of his fail.

The probability of his fail =

12 El-Kalyoubia Governorate

Directorate of Education Zone
Maths Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $3.75 \times 1000 = \dots\dots\dots$ (0.375 or 0.0375 or 3750 or 37.5)

(2) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)

(3) The number of altitudes in the right-angled triangle =
(0 or 1 or 3 or 2)

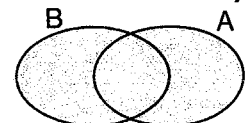
(4) $2\frac{1}{8} \div \frac{1}{8} = \dots\dots\dots$ (17 or 16 or 8 or 18)

(5) If $5 \in \{7, 9, x, 4\}$, then $x = \dots\dots\dots$ (4 or 5 or 6 or 8)

(6) 4.2 dm. =
(0.42 cm. or 420 cm. or 42 cm. or 4200 cm.)

(7) 43 days \approx weeks. (4 or 5 or 6 or 7)

(8) The shaded part in Venn diagram represents



($A \cap B$ or $A - B$ or A^c or $A \cup B$)

(9) 3.36 km. = m. (3360 or 336 or 3630 or 33600)

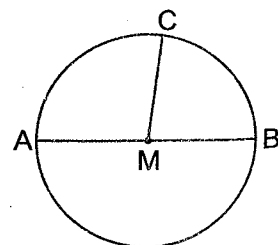
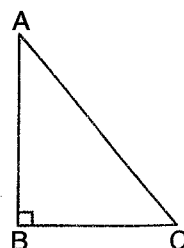
(10) If M is a circle whose diameter length is 8 cm. where A is a point and
MA = 8 cm. , then the point A is located the circle.

(inside or outside or on or on the centre)

- (11) $\frac{3}{5}$ 0.06 ($<$ or $>$ or $=$ or \leq)
- (12) $9\frac{3}{25} = \dots\dots\dots$ (to the nearest tenth) (9 or 9.2 or 9.13 or 9.1)
- (13) $\{5, 4\} - \{7, 9, 8, 4\} = \dots\dots\dots$
($\{5\}$ or $\{7, 9, 4\}$ or $\{7, 8, 4\}$ or $\{9, 5, 8, 4\}$)
- (14) For any set A and its complement A^c , then $A \cup A^c = \dots\dots\dots$
(A or A^c or U or $A \cap A^c$)

2 Complete the following :

- (1) $4\frac{1}{8} \times 2\frac{2}{3} = \dots\dots\dots$
- (2) In the opposite figure :
The corresponding height
to the base \overline{BC} is $\dots\dots\dots$
- (3) $\frac{3}{25} \div \dots\dots\dots = \frac{3}{25}$
- (4) The probability of the certain event = $\dots\dots\dots$
- (5) If $Y = \{2, 9, 6\} \cap \{1, 2, 4\}$, then 6 $\dots\dots\dots$ Y
- (6) In the opposite figure :
 \overline{AB} is called $\dots\dots\dots$
- (7) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$
- (8) $3978 \div \dots\dots\dots = 3.978$

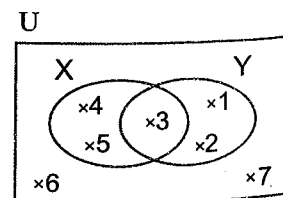


3 Answer the following :

- (1) Look at the opposite Venn diagram, then find :

[a] $X \cap Y = \dots\dots\dots$

[b] $(X \cup Y)^c = \dots\dots\dots$



- (2) Find with steps :

[a] $21.6 \div 1.2 = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$

[b] $5\frac{1}{2} \div 3\frac{2}{3} = \dots\dots\dots \div \dots\dots\dots = \dots\dots\dots$

- (3) A bag contains 5 white marbles, 7 black marbles and 3 red marbles, randomly one marble is selected, find :

- [a] The probability of selecting a black marble = $\dots\dots\dots$
- [b] The probability of selecting a white or red marble = $\dots\dots\dots$

- (4) Draw the triangle ABC where $AB = 4$ cm.
 $BC = 6$ cm. and $CA = 8$ cm.
 Then draw a circle its centre is B and its
 radius length is 4 cm.

13 El-Sharkia Governorate

Menia El-Qamh Educational Zone
Mathematics Inspection



Answer the following questions :

1 Choose the correct answer :

- (1) 4 { 5 , 4 , 32 } (\in or \notin or \subset or $\not\subset$)
 (2) $402.5 \times 100 =$ (40.25 or 4.025 or 40250 or 4025)
 (3) $\frac{1}{8} \approx$ (to the nearest hundredth)
 (0.125 or 0.12 or 0.13 or 0.1)
 (4) 5.63 km. = m. (5.63 or 5630 or 563 or 56.3)
 (5) \emptyset { 0 } (\in or \notin or \subset or $\not\subset$)
 (6) Every triangle has altitudes. (1 or 2 or 3 or 4)
 (7) If $X \subset Y$, then $X \cap Y =$ (U or X or Y or \emptyset)
 (8) The chord which passes through the centre of a circle is called
 (diameter or radius or centre or side)
 (9) When tossing a coin once the probability of appearing a tail =
 (1 or $\frac{1}{2}$ or $\frac{1}{3}$ or $\frac{1}{6}$)
 (10) $255 \div 25 = 2.55 \div$ (2.5 or 0.25 or 25 or 2500)
 (11) 40 days \approx weeks. (4 or 6 or 5 or 7)
 (12) $4 \frac{1}{8} \times 2 \frac{2}{3} =$ (1 or 10 or 11 or 111)
 (13) If $\{5, 7\} = \{7, x + 3\}$, then $x =$ (3 or 5 or 2 or 1)
 (14) $\frac{1}{2}$ \square $\frac{1}{3}$ (< or > or =)

2 Complete :

- (15) $\frac{2}{3} \times$ = 1
 (16) If $\frac{x}{8} = \frac{15}{24}$, then $x =$
 (17) The probability of the sure event =

- (18) A circle which its diameter length is 10 cm. , the length of its radius is cm.
- (19) $806.7 \div 100 = \dots\dots\dots$
- (20) If $5 \in \{3, 4, x\}$, then $x = \dots\dots\dots$
- (21) $\{4, 7\} \cap \{2, 7\} = \dots\dots\dots$
- (22) The longest chord in a circle is called

3 Answer the following :

- (23) If the price of piece of sweet is 2.25 pounds, what is the price of 25 pieces of the same kind ?
.....

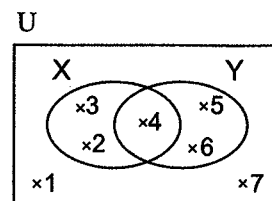
- (24) Using the opposite Venn diagram , find :

[a] $X \cap Y = \dots\dots\dots$

[b] $X \cup Y = \dots\dots\dots$

[c] $X - Y = \dots\dots\dots$

[d] $Y^c = \dots\dots\dots$



- (25) A box contains 5 blue balls , 2 red balls , 4 white balls.

Find the probability of getting :

[a] A white ball =

[b] A red ball =

- (26) Draw the triangle ABC where

AB = 3 cm. , BC = 4 cm. and AC = 5 cm.

14 El-Gharbia Governorate

El-Gharbia Educational Directorate
Math's Supervision



Answer the following questions :

1 Choose the correct answer :

(1) $2586.3 \div 100 = \dots\dots\dots$

(25.863 or 258.63 or 2586.3 or 0.25863)

- (2) $2.25 \div 1.5 = \dots\dots\dots$ (105 or 1.5 or 15 or 0.15)
- (3) $X \cap \emptyset = \dots\dots\dots$ (zero or X or \emptyset or $\{0\}$)
- (4) The altitudes of the triangle intersect at
(one point or two points or three points or four points)
- (5) $6.85 \times 1000 = \dots\dots\dots$ (68.50 or 685 or 6850 or 685000)
- (6) The probability of the impossible event =
(0 or 1 or 0.5 or \emptyset)
- (7) If $\{4, x + 2\} = \{7, 4\}$, then $x = \dots\dots\dots$ (4 or 5 or 7 or 9)
- (8) The longest chord in the circle is called
(radius or centre or side or diameter)
- (9) $255 \div 25 = 2.55 \div \dots\dots\dots$ (25 or 0.25 or 2.5 or 2500)
- (10) 5.6 tons = kg. (5600 or 650 or 2.5 or 2500)
- (11) 8 $\{7, 5, 8\}$ (\in or \notin or \subset or $\not\subset$)
- (12) \emptyset $\{0, 1, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (13) 12 the set of days of the week. (\in or \notin or \subset or $\not\subset$)
- (14) 10 halves 20 fifths. (\leq or $>$ or $<$ or $=$)

2 Complete the following :

- (1) The diameter of a circle is a chord that crosses the
- (2) $\{1, 2\} \cup \{2, 3\} = \dots\dots\dots$
- (3) $\{5, 7\} - \{1, 2\} = \dots\dots\dots$
- (4) 4 tens \div 8 tenths =
- (5) If $X \cap Y = \emptyset$, then X and Y are
- (6) The probability of the sure event =
- (7) $5.766 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)
- (8) $66.7 \div 1000 = \dots\dots\dots$

3 Answer the following :

- (1) $7.4 \times 2.2 = \dots\dots\dots$
- (2) $12474 \div 231 = \dots\dots\dots$ (show the steps)

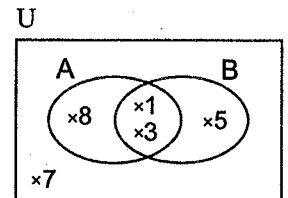
(3) Using the opposite Venn diagram , find :

[a] $A \cup B = \dots\dots\dots$

[b] $A \cap B = \dots\dots\dots$

[c] $B - A = \dots\dots\dots$

[d] $\bar{B} = \dots\dots\dots$



(4) Draw the triangle ABC in which

$AB = BC = CA = 6 \text{ cm.}$, then

draw $\overline{AD} \perp \overline{BC}$, then

find the length \overline{BD} and $m(\angle B)$

(5) A bag contains 5 white balls , 9 red balls and 6 black balls , all the balls are identical and equal in size , if a ball is drawn randomly.

What is the probability that the drawn ball is :

[a] White ?

[b] Not white ?

[c] White or red ?

15 El-Dakahlia Governorate

Mathematics Supervision
Math Department



Answer the following questions :

1 Choose the correct answer :

(1) 0.23×1.9 0.019×23

(< or > or = or ≠)

(2) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$

(X or Y or U or \emptyset)

(3) $32.683 \approx \dots\dots\dots$ (to the nearest 0.01)

(23.68 or 32.69 or 32.7 or 32.68)

(4) If $\{a, 3, 5\} = \{b, 5, 2\}$, then $a + b = \dots\dots\dots$

(2 or 3 or 5 or 8)

(5) is used for drawing a circle.

(Set square or Ruler or Compasses or Protractor)

(6) is a chord passing through the centre of circle.

(Radius or Chord or Diameter or Centre)

(7) If A and B are disjoint sets , then $A - B = \dots\dots\dots$

(\emptyset or A or B or U)

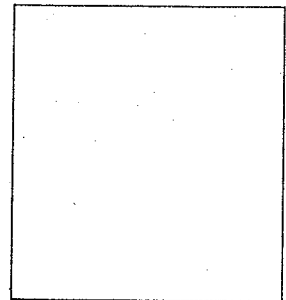
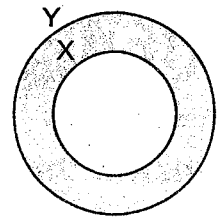
(8) 39 days $\approx \dots\dots\dots$ weeks.

(5 or 6 or 7 or 8)

- (9) $\{1, 2, 3\} \dots \{1, 2\}$ (\in or \notin or \subset or $\not\subset$)
- (10) The number of altitudes in the acute-angled triangle is
(0 or 1 or 2 or 3)
- (11) $1.92 \div \dots = 0.0192$ (10 or 100 or 1000 or 10000)
- (12) $\frac{2}{3} \times \dots = 1$ ($\frac{2}{3}$ or 1 or $\frac{3}{2}$ or 2.3)
- (13) $355 \div 18 = 3.55 \div \dots$ (1.8 or 0.18 or 18 or 1800)
- (14) $\hat{A} = \dots$ (U-A or A or B or \emptyset)

2 Complete :

- (1) The shaded part represents
- (2) 245 dm. = m.
- (3) If M is the centre of a circle
 \overline{AB} is a chord such that $M \in \overline{AB}$, then \overline{AB} is called
- (4) $5904 \div 492 = \dots$ (show steps in the rectangle).
- (5) The probability of the certain event =
- (6) $2\frac{2}{3} \div \frac{4}{3} = \dots$
- (7) $\{2, 4, 5\} \cap \{0, 2, 4\} = \dots$
- (8) Radius length of a circle = \times diameter length.



3 Answer the following :

- (1) If the length of a rectangle is 2.65 cm. and its width 1.5 cm.
 Calculate its area to the nearest tenth.

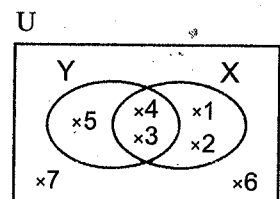
- (2) From the opposite figure , complete :

[a] $X \cup Y = \dots$

[b] $X \cap Y = \dots$

[c] $X - Y = \dots$

[d] $(X \cup Y)^c = \dots$



- (3) A card has been drawn randomly out of 10 cards numbered from 1 to 10
 , find the probability of getting :
- [a] An odd number =
- [b] A prime number =

[c] An even number between 4 and 6 =

[d] A factor of the number 9 =

- (26) Draw a circle M of radius length 2.5 cm.
and draw \overline{MA} as a radius , then complete
the equilateral triangle MAB , then
find the perimeter of the triangle.
The perimeter =

16 Ismailia Governorate

Directorate of Education
24th October G.L.S.



Answer the following questions :

1 Choose the correct answer :

- (1) $736.592 \approx 736.59$ (to the nearest)
(unit **or** tenth **or** hundredth **or** thousandth)
- (2) The number of altitudes of any triangle is (1 **or** 2 **or** 3 **or** 4)
- (3) $X \cap \bar{X} = \dots\dots\dots$ (X **or** \bar{X} **or** U **or** \emptyset)
- (4) $37.4289 - 14.081 \approx \dots\dots\dots$ (to the nearest $\frac{1}{1000}$)
(23.349 **or** 23.350 **or** 23.348 **or** 23.248)
- (5) $5.748 \times 100 = \dots\dots\dots$ (57.48 **or** 0.5748 **or** 574.8 **or** 5748)
- (6) $4 \dots\dots\dots \{2, 5\}$ (\in **or** \notin **or** \subset **or** $\not\subset$)
- (7) $\frac{4}{7} \square \frac{5}{9}$ ($<$ **or** $=$ **or** $>$)
- (8) 3.36 km. = m. (3.36 **or** 33.6 **or** 336 **or** 3360)
- (9) $0.06 \times 0.3 = \dots\dots\dots$ (18 **or** 0.018 **or** 0.18 **or** 0.09)
- (10) The chord which passes through the centre of a circle is called
(diameter **or** radius **or** centre **or** side)
- (11) If $\{4, 8\} = \{1 + y, 4\}$, then $y = \dots\dots\dots$ (3 **or** 4 **or** 6 **or** 7)
- (12) $2.125 \div 0.25 = \dots\dots\dots \div 25$
(212.5 **or** 21.25 **or** 2125 **or** 21250)

(13) The set of odd numbers is set.

(a finite **or** an empty **or** an infinite)

(14) If $X \subset Y$, then $X - Y = \dots\dots\dots$

(X **or** \emptyset **or** Y)

2 Complete :

(15) The probability of the impossible event =

(16) $\dots\dots\dots \times 2\frac{1}{2} = 1$

(17) $\emptyset \dots\dots\dots \{8, 10\}$

(18) $3\frac{1}{4} \div \frac{1}{4} = \dots\dots\dots$

(19) 5 $\dots\dots\dots \{7, 5, 3\}$

(20) To draw a circle with diameter length 8 cm. , we open the compasses cm.

(21) $5\frac{2}{3} \times \frac{3}{17} = \dots\dots\dots$

(22) If ABC is an equilateral triangle of side length 4 cm. , then its perimeter = cm.

3 Answer the following :

(23) Arrange in an ascending order :

$3\frac{1}{4}$, 3.3 , 3.125 and $3\frac{1}{2}$

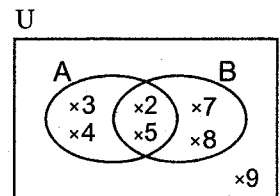
(24) From the opposite Venn diagram , find :

[a] $A \cup B = \dots\dots\dots$

[b] $A \cap B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $B^c = \dots\dots\dots$



(25) Draw ABC isoscles triangle in which

$AB = AC = 5$ cm. , $BC = 6$ cm.

and draw $\overline{AD} \perp \overline{BC}$, then find by measuring the length of \overline{AD}

(26) A box contains 5 white balls , 4 blue balls and 2 red balls , find the probability of getting :

[a] A blue ball =

[b] A red ball =

17 Suez Governorate

Maths Inspectorate



Answer the following questions :

1 Choose the correct answer :

- (1) 2.45 km. = m. (24.5 or 245 or 0.245 or 2450)
- (2) The longest chord in a circle is called a
 (chord or diameter or radius or otherwise)
- (3) $\frac{1}{4}$ = (0.2 or 0.5 or 0.25 or 2.5)
- (4) $\frac{1}{3}$ $\frac{1}{2}$ ($>$ or $<$ or $=$ or \geq)
- (5) 36 days \approx weeks (to the nearest week) (4 or 5 or 6 or 7)
- (6) $57.3 \times 100 =$ (0.573 or 0.0573 or 5730 or 5.73)
- (7) $2\frac{2}{3} \times 4\frac{1}{8} =$ (11 or 10 or 1.1 or 111)
- (8) 2 the set of digits of 1325 (\in or \notin or \subset or $\not\subset$)
- (9) If $8 \in \{3, 5, 4, x\}$, then $x =$ (2 or 3 or 4 or 5)
- (10) If $a \in X$, then a X (\in or \notin or \subset or $\not\subset$)
- (11) The smallest number from the following is
 (0.123 or 0.111 or 0.12 or 1.023)
- (12) If $\{4, 5, 6\} = \{6, 4, x + 1\}$, then $x =$
 (4 or 5 or 6 or 3)
- (13) When tossing a coin once, then the probability of appearing a head
 = (0 or 1 or 2 or $\frac{1}{2}$)
- (14) $3.36 \div 0.6 =$ (5.6 or 56 or 0.56 or 6.5)

2 Complete :

- (1) If $\frac{3}{8} = \frac{a}{24}$, then $a =$
- (2) $\frac{3}{7} \times$ = 1
- (3) If $X \subset Y$, then $X \cup Y =$
- (4) The point of intersection of the three altitudes of obtuse-angled triangle lies the triangle.
- (5) The probability of the sure event is

- (6) A circle , its diameter length = 6 cm. , then its radius length = cm.
 (7) $7.52 + (14.73 - 11.53) \approx \dots\dots\dots$ (to the nearest $\frac{1}{10}$)
 (8) When tossing a fair die once , then the probability of appearing the number 7 is

3 Answer the following :

- (1) Arrange in a descending order :

$$\frac{1}{4} , 0.8 , 0.4 \text{ and } \frac{1}{2}$$

- (2) Draw the triangle ABC in which

$$AB = AC = 5 \text{ cm. , } BC = 8 \text{ cm.}$$

Draw the altitude \overline{AD} , find its length.

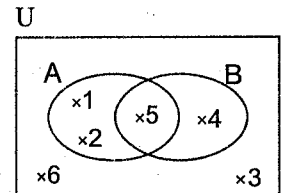
- (3) From the opposite Venn diagram , find :

[a] $A \cup B = \dots\dots\dots$

[b] $A \cap B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $B^c = \dots\dots\dots$



- (4) A box contains identical balls where 5 balls are white , 9 red balls and 6 black balls , if one ball is chosen randomly , what is the probability that the chosen ball is white ?

18 Damietta Governorate

Damietta Educational Directorate
Maths Inspection



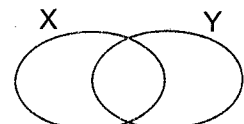
Answer the following questions :

1 Choose the correct answer :

- (1) $7\frac{1}{8} \approx \dots\dots\dots$ (to the nearest tenth) (0.7 or 7.2 or 7.1 or 7)
 (2) If $\{6 , 10\} \subset \{10 , x - 4\}$, then $x = \dots\dots\dots$

(2 or 4 or 6 or 10)

- (3) The shaded part
is



($X \cap Y$ or $X - Y$ or $Y - X$ or $Y \cup X$)

- (4) 0.312×100 $312 \div 100$ ($>$ or $<$ or $=$ or \leq)
- (5) A square of side length = 3.5 cm. , then its area = cm^2
(14 or 122.5 or 12.25 or 7)
- (6) A circle M , the length of its diameter = 10 cm. , if MA = 8 cm.
 , then the point A lies the circle.
(inside or outside or on or otherwise)
- (7) 43 days \approx weeks. (to the nearest week)
(4 or 5 or 6 or 7)
- (8) $A - \bar{A} =$ (\bar{A} or A or \emptyset or U)
- (9) $736.592 \approx 736.59$ (to the nearest)
(unit or tenth or hundredth or thousandth)
- (10) If $X \subset Y$, then $X \cup Y =$ (X or Y or \emptyset or U)
- (11) The quotient of dividing $1.92 \div 0.6 =$
(3.5 or 3.2 or 3.1 or 3)
- (12) 7.3 m. = dm. (7.3 or 0.73 or 73 or 730)
- (13) The altitudes of the obtuse-angled triangle intersect at one point
located the triangle.
(inside or on or outside or otherwise)
- (14) 7 the set of days of the week. (\in or \notin or \subset or $\not\subset$)

2 Complete the following :

- (1) The number of subsets of the set $\{a, b\}$ is
- (2) If $\frac{x}{3} = \frac{20}{12}$, then $x =$
- (3) The number of altitudes in the equilateral triangle =
- (4) $2\frac{3}{4} \div 1\frac{3}{8} =$
- (5) As throwing a fair die once , then the probability of appearing
a number less than 3 is
- (6) $\{2, 4, 6\} \cap$ the set of all factors of the number 6 =
- (7) Any chord passing through the centre of a circle is called
- (8) The ascending order of $\frac{1}{4}$, $\frac{4}{5}$, 0.4 and $\frac{3}{4}$
is , and

3 Answer the following :

(1) A factory produces 235 pieces of cloth monthly. In how many months does it produce 26555 pieces of cloth ?
.....

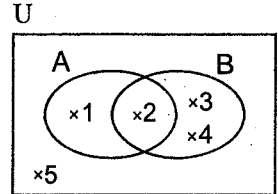
(2) From the opposite Venn diagram , find the following :

[a] $A \cap B = \dots\dots\dots$

[b] $A \cup B = \dots\dots\dots$

[c] $A - B = \dots\dots\dots$

[d] $A^c = \dots\dots\dots$



(3) A card has been randomly drawn out of 10 cards numbered from 1 to 10
Find the probability of getting :

[a] A prime number =

[b] An even number less than 6 =

(4) Draw the triangle ABC in which

AB = 4 cm. , BC = 6 cm. and CA = 8 cm.

, then draw a circle whose centre is B

and its radius length is equal to 4 cm.

, then complete :

..... is called the radius of the circle.

19 Kafr El-Sheikh Governorate

Maths Supervision



Answer the following questions :

1 Complete :

(1) If $A \subset B$, then $A - B = \dots\dots\dots$

(2) $2\frac{3}{4} \div 1\frac{3}{8} = \dots\dots\dots$

(3) The longest chord in the circle is called

(4) $3.125 \times 4.3 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest 0.01)

(5) $\frac{2}{5} \times 15 = \dots\dots\dots$

(6) The number of subsets of the set $A = \{5, 2\}$ is

(7) The number of altitudes of the right - angled triangle is

(8) The probability of the impossible event =

2 Choose the correct answer :

- (9) $806.7 \div 100 = \dots\dots\dots$ (80.67 or 8.607 or 8.076 or 8.067)
- (10) $\{5\} \dots\dots\dots \{15, 55\}$ (\in or \notin or \subset or $\not\subset$)
- (11) The altitudes of any triangle intersect at $\dots\dots\dots$
(three points or two points or one point or zero point)
- (12) 40 days $\approx \dots\dots\dots$ weeks. (to the nearest week)
(8 or 7 or 6 or 5)
- (13) $2.7 \times 3.5 \square 0.27 \times 35$ (\neq or $>$ or $<$ or $=$)
- (14) If $\{3, 5\} - \{5, x\} = \emptyset$, then $x = \dots\dots\dots$ (3 or 5 or 8 or 2)
- (15) $\emptyset \dots\dots\dots \{0, 7\}$ (\in or \notin or \subset or $\not\subset$)
- (16) $255 \div 25 = 2.55 \div \dots\dots\dots$ (2.5 or 0.25 or 25 or 2500)
- (17) $\frac{3}{7} \times 1\frac{5}{9} = \dots\dots\dots$ ($\frac{3}{2}$ or $\frac{2}{3}$ or $1\frac{15}{63}$ or $\frac{3}{4}$)
- (18) $6630 \div 195 = \dots\dots\dots$ (304 or 340 or 430 or 34)
- (19) If $5 \in \{2, x+4, 7\}$, then $x = \dots\dots\dots$ (1 or 5 or 9 or 13)
- (20) $2 \square \frac{9}{4}$ ($>$ or $<$ or $=$ or \geq)
- (21) If $X - Y = X$, then $X \cap Y = \dots\dots\dots$ (X or Y or U or \emptyset)
- (22) A circle, its radius length = 3.5 cm., then its diameter length = $\dots\dots\dots$ cm.
(5 or 6.10 or 7 or 8)

3 Answer the following :

(23) A card is drawn from numbered cards from 1 to 10 randomly.

Find the probability that the drawn card is carrying :

[a] An odd number = $\dots\dots\dots$ [b] A prime number = $\dots\dots\dots$

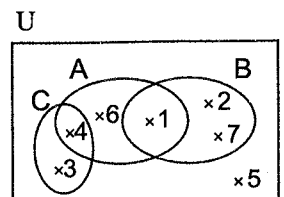
[c] A number less than 11 = $\dots\dots\dots$

[d] A whole number between 5 and 6 = $\dots\dots\dots$

(24) The opposite Venn diagram represents the sets A, B, C and U, complete :

[a] $A \cup C = \dots\dots\dots$ [b] $A \cap B = \dots\dots\dots$

[c] $B - C = \dots\dots\dots$ [d] $(A \cup B)^c = \dots\dots\dots$



(25) Arrange the following fractions in an ascending order :

$14\frac{1}{4}$, 15.025, 14.375 and $14\frac{1}{8}$

The order is : $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$ and $\dots\dots\dots$

- (26) Draw the triangle ABC in which
 $AB = 7 \text{ cm.}$, $BC = CA = 6 \text{ cm.}$
 , then draw the line segment from
 the point C that is perpendicular to \overline{AB}
 , and find its length.

20 El-Beheira Governorate

Damanhur Educational Directorate
 Al-Farabi Language School



Answer the following questions :

1 Choose the correct answer :

- (1) The triangle which the measures of its angles are 50° , 90° and 40° is called triangle.

(acute-angled **or** obtuse-angled **or** right-angled **or** otherwise)

- (2) $4\frac{1}{3} \times 2\frac{1}{13} = \dots\dots\dots$ (1 **or** 10 **or** 9 **or** 111)

- (3) If $\{7, 10\} = \{10, x + 4\}$, then $x = \dots\dots\dots$ (3 **or** 4 **or** 5 **or** 6)

- (4) $3.75 \times 1000 = \dots\dots\dots$ (0.375 **or** 0.0375 **or** 3750 **or** 37.5)

- (5) $\frac{1}{2} \square \frac{1}{3}$ (< **or** > **or** = **or** otherwise)

- (6) $9.989 \approx \dots\dots\dots$ (to the nearest 0.01) (9.9 **or** 10 **or** 9.99 **or** 9)

- (7) $55.241 \times 100 \square 522.41 \times 10$ (< **or** > **or** = **or** otherwise)

- (8) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 **or** 2 **or** 3 **or** $\frac{3}{2}$)

- (9) 43 days $\approx \dots\dots\dots$ weeks. (4 **or** 6 **or** 5 **or** 7)

- (10) Each chord passing through the centre of the circle is called a
 in the circle. (diameter **or** radius **or** side **or** otherwise)

- (11) The smallest number from the following is
 (0.111 **or** 0.12 **or** 0.123 **or** 1.023)

- (12) If $Y = \{2, 4, 6\} \cup \{1, 2, 3\}$, then 6 Y
 (\in **or** \notin **or** \subset **or** $\not\subset$)

- (13) A class has 40 pupils, 25 of them are boys and the remainder are girls , if a pupil is chosen randomly , then the probability that the chosen pupil is a girl =
 ($\frac{3}{8}$ **or** $\frac{5}{8}$ **or** $\frac{3}{5}$ **or** 1)

(14) The number of the altitudes in any triangle =

(1 or 2 or 3 or 4)

2 Complete each of the following :

(1) $\frac{4}{6} \div \frac{6}{12} = \dots\dots\dots$

(2) The probability of the certain event =

(3) If X and Y are two sets and $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(4) If $5 \in \{1, x\}$, then $x = \dots\dots\dots$

(5) $4.6788 \approx \dots\dots\dots$ (to the nearest thousandth)

(6) $2.25 \div 1.5 = \dots\dots\dots$

(7) $3.453 + 4.332 = \dots\dots\dots \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$)

(8) $0.532 \times 3.2 = \dots\dots\dots$

3 Answer the following :

(1) If the universal set $U = \{x : x \text{ is an odd number , } 1 \leq x \leq 15\}$
 $X = \{1, 3\}$, $Y = \{1, 5, 9, 13\}$, draw a Venn diagram which
 expresses the sets U , X and Y , then find :

[a] $X \cap Y = \dots\dots\dots$

[b] $Y^c = \dots\dots\dots$

(2) Draw $\triangle ABC$ in which $AB = 7$ cm.

, $BC = CA = 6$ cm. , then draw
 the line segment from point C that
 is perpendicular to \overline{AB} at D
 and find its length.

(3) A bag contains 5 white balls , 9 red balls and 6 black balls. If one ball is
 chosen randomly , what its the probability that the chosen ball is :

[a] White ?

[b] Not red ?

(4) A rectangle whose length is 4.1 cm. and width is 3.5 cm.
 , calculate its area.

21 El-Menia Governorate

El-Menia Educational Zone
Kafr El-Mansoura Formal Language School



Answer the following questions :

1 Choose the correct answer :

(1) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(2) 43 days \approx weeks (to the nearest week) (4 or 6 or 5 or 7)

(3) If $\{2, 3, 4\} = \{3, 4, x\}$, then $x = \dots\dots\dots$ (2 or 3 or 4 or 5)

(4) $10 \times 4.72 \square 100 \times 0.472$ ($>$ or $<$ or $=$ or \neq)

(5) In any triangle, the number of its altitudes =
(1 or 2 or 3 or 4)

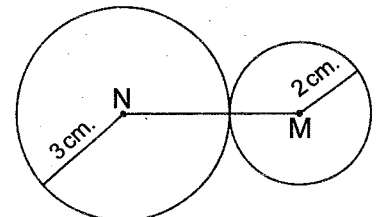
(6) $3\frac{1}{8} \approx \dots\dots\dots$ (to the nearest hundredth)
(3.10 or 3.12 or 3.13 or 3.11)

(7) $\emptyset \dots\dots\dots \{0\}$ ($=$ or \subset or $\not\subset$ or \in)

(8) 3.36 km. = m. (3.36 or 33.6 or 336 or 3360)

(9) In the opposite figure :

MN = cm.



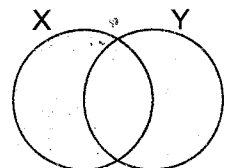
(2 or 3 or 6 or 5)

(10) If $X = \{3, 4, 5\}$, $Y = \{2, 3, 4\}$, then 5 $X - Y$

(\in or \notin or \subset or $\not\subset$)

(11) $48.2 \times 3.7 \square 4.82 \times 37$ ($>$ or $<$ or $=$ or \neq)

(12) The shaded part represents



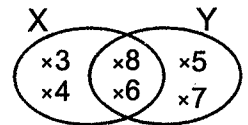
($X \cap Y$ or $X \cup Y$ or $X - Y$ or $Y - X$)

(13) $12.3 \times \dots\dots\dots = 1230$ (10 or 100 or 1000 or 10000)

(14) $\{52\} \dots\dots\dots \{5, 2\}$ (\in or \notin or \subset or $\not\subset$)

2 Complete :

- (1) $2.03 \times 0.07 = \dots\dots\dots$
- (2) A circle of diameter length 4 cm. , then its radius length = $\dots\dots\dots$ cm.
- (3) If the probability of a pupil succeed in an exam is $\frac{8}{10}$, then the probability of his fail = $\dots\dots\dots$
- (4) $2\frac{1}{4} \times \frac{\dots\dots\dots}{\dots\dots\dots} = 1$
- (5) The longest chord in a circle is called $\dots\dots\dots$
- (6) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$
- (7) If $\frac{b}{8} = \frac{15}{24}$, then b = $\dots\dots\dots$
- (8) In the opposite figure :
- $X \cap Y = \dots\dots\dots$



3 Answer the following :

- (1) Arrange in a descending order :
- $\frac{1}{2}$, 0.8 , $\frac{1}{4}$ and 0.3
- The descending order is : $\dots\dots\dots$, $\dots\dots\dots$, $\dots\dots\dots$ and $\dots\dots\dots$
- (2) Find the subsets of the set {8}
- The subsets are $\dots\dots\dots$ and $\dots\dots\dots$
- (3) From the table , find the probability that a pupil plays basketball :
- | Game | Football | Basketball | Handball |
|------------------|----------|------------|----------|
| Number of pupils | 50 | 40 | 10 |
- The probability = $\dots\dots\dots$
- (4) Draw the triangle ABC where :
- AB = 4 cm. , BC = 6 cm. , CA = 8 cm.
- , then draw a circle its centre B
- and its radius length 4 cm.

22 Souhag Governorate

Maths Supervision



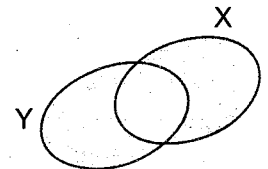
Answer the following questions :

1 Choose the correct answer :

(1) $9\frac{3}{25} \approx \dots\dots\dots$ (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(2) 0.312×100 $312 \div 100$ (> or < or = or \leq)

(3) The shaded part represents



($X \cup Y$ or $X \cap Y$ or $X - Y$ or $Y - X$)

(4) The number of altitudes in the right-angled triangle is

(1 or 2 or 3 or 4)

(5) If $\{7, 10\} \subset \{10, x + 4\}$, then $x = \dots\dots\dots$

(3 or 4 or 5 or 6)

(6) The reciprocal of $3\frac{1}{2}$ is

($\frac{7}{2}$ or $\frac{2}{7}$ or $3\frac{2}{1}$ or 8)

(7) $5.035 \approx \dots\dots\dots$ (to the nearest $\frac{1}{100}$) (5 or 500 or 5.04 or 5.03)

(8) The set of odd numbers is set.

(a finite or an empty or an infinite)

(9) The number of subsets of the set $\{a, b\}$ is

(3 or 4 or 5 or 2)

(10) The length of the longest chord in the circle is 6 cm. , then the length of the radius of this circle = cm. (6 or 3 or 4.5 or 12)

(11) $\{7, 8\} \dots\dots\dots \{5, 7, 10\}$ (\in or \notin or \subset or $\not\subset$)

(12) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{8}$)

(13) If $\frac{a}{3} = \frac{5}{15}$, then $a = \dots\dots\dots$ (4 or 5 or 1 or 2)

(14) $12 \dots\dots\dots \{10, 2\}$ (\in or \notin or \subset or $\not\subset$)

2 Complete each of the following :

(1) 3.002 kg. = gm.

- (2) The probability of the sure event =
- (3) $\frac{3}{7} \times \dots = 1$
- (4) If $X \subset Y$, then $X \cap Y = \dots$
- (5) The area of a rectangle of 15.5 metres long and 5.5 metres wide is m^2
- (6) $3.75 \times 1000 = \dots$
- (7) The longest chord in a circle is called a
- (8) $6.3729 \approx \dots$ (to the nearest $\frac{1}{1000}$)

3 Answer the following :

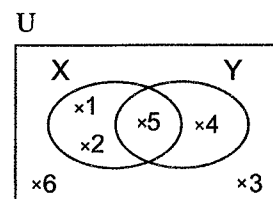
- (1) Arrange the following numbers in an ascending order :

$$\frac{1}{4} , 0.8 , 0.4 , \frac{1}{2} \text{ and } \frac{3}{4}$$

The ascending order is : , , and

- (2) Look at the opposite Venn diagram , then complete :

- [a] $X \cup Y = \dots$
- [b] $X - Y = \dots$
- [c] $(X \cup Y)^c = \dots$
- [d] $X \cap Y = \dots$



- (3) Draw the triangle ABC where
AB = 6 cm. and BC = AC = 5 cm.

- (4) If the price of one metre of cloth is L.E. 39.8 , what is the price of 8.5 metres to the nearest L.E. ?
.....

- (5) A box contains 3 white balls , 7 red balls and 5 yellow balls , all of equal size , one ball is chosen randomly , find the probability of getting :

- [a] A white ball = [b] Not yellow ball =

23 Qena Governorate

Qena Directorate Education
Experimental Language School



Answer the following questions :

1 Choose the correct answer :

(1) 3.36 km. = m. (3.36 or 33.6 or 336 or 3360)

(2) 9.16 = (to the nearest tenth) (0.9 or 9.2 or 9.1 or 9)

(3) 0.312×100 $312 \div 100$ (< or > or = or \leq)

(4) The smallest number from the following is
(0.111 or 0.12 or 0.123 or 1.023)

(5) $\frac{5}{6} \div 1\frac{1}{6} = \dots\dots\dots$ ($\frac{5}{7}$ or $\frac{2}{6}$ or $\frac{3}{7}$ or $\frac{7}{6}$)

(6) A circle with a diameter length 6 cm. , then its radius length = cm.
(2 or 4 or 3 or 6)

(7) The probability of the impossible event =
(0 or 1 or 0.5 or 2)

(8) If $X \subset Y$, then $X \cup Y = \dots\dots\dots$ (X or Y or U or \emptyset)

(9) As throwing a fair die once , then the probability of getting an odd number =
(1 or 0 or $\frac{1}{2}$ or $\frac{1}{3}$)

(10) The number of altitudes of a triangle =
(1 or 2 or 0.5 or 3)

2 Complete the following :

(1) The longest chord in the circle is called

(2) If $\{4, 6\} = \{1 + x, 4\}$, then $x = \dots\dots\dots$

(3) $2.5 \times 2.31 = \dots\dots\dots$

(4) $5\frac{1}{3} \times 6 = \dots\dots\dots$

(5) $\frac{2}{5} \div \frac{7}{5} = \dots\dots\dots$

3 Answer the following :

(1) If $U = \{1, 2, 3, 4, 5, 6, 9\}$, $X = \{2, 3, 5\}$ and $Y = \{2, 4, 6\}$
Represent each of X , Y and U using a Venn diagram , then find :

[a] $X \cup Y = \{ \dots \}$

[b] $X \cap Y = \{ \dots \}$

[c] $U - X = \{ \dots \}$

[d] $\dot{Y} = \{ \dots \}$

- (2) Find the area of the rectangle whose length is 4.1 cm. and its width is 3.5 cm.

The area of the rectangle =

- (3) Rearrange the following fractions descendingly :

$\frac{1}{2}$, 0.8 , $\frac{1}{4}$ and 0.3

The order is : , and

- (4) Draw the equilateral triangle ABC

whose side length = 5 cm. , then

draw $\overline{AD} \perp \overline{BC}$, then find :

[a] The perimeter of triangle ABC

[b] $m(\angle CAD)$ by measuring.

- (5) A fair die is thrown once , what is the probability of each the following events ?

[a] Appearing an odd number =

[b] Appearing an even number =

[c] Appearing a number less than one =

24 Luxor Governorate

Luxor Educational Zone
El-Salaam private Language School



Answer the following questions :

1 Choose the correct answer :

- (1) A circle , its diameter length is 10 cm. , then its radius length = cm.

(3 or 5 or 6 or 9)

- (2) $0.737 \approx \dots\dots\dots$ (to the nearest hundredth)
(0.72 or 0.74 or 0.738 or 0.8)
- (3) If $9 \in \{8, 3, x\}$, then $x = \dots\dots\dots$ (9 or 4 or 7 or 8)
- (4) If $\frac{2}{5} = \frac{a}{15}$, then $a = \dots\dots\dots$ (6 or 9 or 7 or 1)
- (5) If $X = \{1, 2, 3\}$, $Y = \{2, 3, 5, 6\}$, then $X \cap Y = \dots\dots\dots$
($\{1\}$ or $\{2, 3\}$ or $\{1, 2\}$ or $\{1, 2, 3\}$)
- (6) Any triangle has $\dots\dots\dots$ altitudes. (4 or 2 or 3 or 5)
- (7) $\{2, 5, 6\} - \{6, 5, 3\} = \dots\dots\dots$
($\{2\}$ or $\{2, 5, 6\}$ or $\{5\}$ or $\{5, 6\}$)
- (8) $3 \dots\dots\dots \{2, 3\}$ (\in or \notin or \subset or $\not\subset$)
- (9) $\frac{5}{8} \square \frac{3}{8}$ ($>$ or $<$ or $=$ or \leq)
- (10) $7.134 \times 100 = \dots\dots\dots$ (0.7134 or 713.4 or 7134 or 71340)
- (11) $1.2 \times 3 = \dots\dots\dots$ (4.8 or 0.36 or 0.48 or 3.6)
- (12) $\frac{2}{5} \div \frac{1}{4} = \dots\dots\dots$ ($\frac{8}{5}$ or $\frac{6}{5}$ or $\frac{2}{8}$ or $\frac{3}{8}$)
- (13) $\emptyset \dots\dots\dots \{3, 8\}$ (\in or \notin or \subset or $\not\subset$)
- (14) $75.3 \div 100 = \dots\dots\dots$ (735 or 7.53 or 0.753 or 75300)

2 Complete :

- (1) $3.6788 \approx \dots\dots\dots$ (to the nearest thousandth)
- (2) The longest chord in a circle is called $\dots\dots\dots$
- (3) If $\frac{4}{7} < \frac{x}{7} < \frac{6}{7}$, then $x = \dots\dots\dots$
- (4) $\{1, 3, 5\} \cup \{4, 2\} = \dots\dots\dots$
- (5) $31.2 \div 10 = \dots\dots\dots$
- (6) If $\{a, 7\} = \{7, 8\}$, then $a = \dots\dots\dots$
- (7) The altitudes of the acute-angled triangle intersect $\dots\dots\dots$ the triangle.
- (8) The probability of the certain event = $\dots\dots\dots$

3 Answer the following :

- (1) Find the result :
 $\frac{1}{5} \times \frac{3}{4} = \dots\dots\dots$

(2) A bag contains 2 white balls , 4 red balls and 5 yellow balls. All the balls are equal in size. If a ball is drawn randomly :

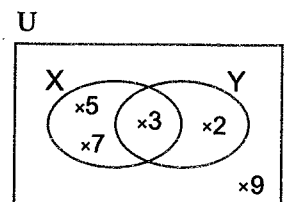
[a] The probability that the drawn ball is white =

[b] The probability that the drawn ball is yellow =

(3) From the opposite Venn diagram , find :

[a] $U = \dots\dots\dots$

[b] $X \cap Y = \dots\dots\dots$



(4) Draw equilateral triangle ABC

whose side length = 5 cm. and

draw an altitude from a vertex C

perpendicular to \overline{AB}

25 Aswan Governorate

Aswan Educational Directorate
Eng. M.M. yacoub Formal Language School



Answer the following questions :

1 Choose the correct answer :

(1) $X \cup \bar{X} = \dots\dots\dots$ (X or \emptyset or U)

(2) $13.376 \approx \dots\dots\dots$ (to the nearest hundredth)
(13.37 or 13.38 or 13.36)

(3) $3.75 \times 1000 = \dots\dots\dots$ (0.375 or 3750 or 37.5)

(4) $\frac{1}{2} \square \frac{1}{3}$ (> or < or =)

(5) If $\frac{x}{8} = \frac{15}{24}$, then $x = \dots\dots\dots$ (3 or 4 or 5)

(6) $\frac{2}{3} \times \dots\dots\dots = 1$ (1 or 2 or $\frac{3}{2}$)

(7) $\frac{7}{10} \div \frac{9}{10} = \dots\dots\dots$ ($\frac{7}{9}$ or $\frac{9}{10}$ or $\frac{7}{10}$)

(8) $7.2 \times 0.9 = \dots\dots\dots$ (6.48 or 648 or 0.648)

(9) $75.3 \div 100 = \dots\dots\dots$ (753 or 7.53 or 0.753)

(10) $\emptyset \dots\dots\dots \{1, 2, 3\}$ (\in or \notin or \subset or $\not\subset$)

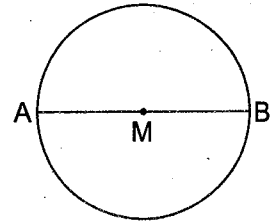
(11) If $\{2, 5\} = \{5, a\}$, then $a = \dots\dots\dots$ (1 or 2 or 3)

(12) If $5 \in \{1, 4 + x\}$, then $x = \dots\dots\dots$

(1 or 3 or 5)

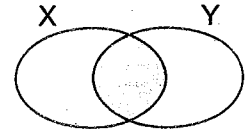
(13) In the opposite figure :

\overline{AB} is called a $\dots\dots\dots$



(radius or chord or diameter)

(14) The shaded part represents $\dots\dots\dots$



($X \cup Y$ or $X \cap Y$ or $X - Y$)

2 Complete :

(1) $48.4 \div 0.4 = \dots\dots\dots$

(2) $3978 \div 234 = \dots\dots\dots$

(3) If $X \subset Y$, then $X \cap Y = \dots\dots\dots$

(4) If $X = \{2, 3\}$, $Y = \{3, 5\}$, then $X \cup Y = \dots\dots\dots$

(5) The longest chord in a circle is called $\dots\dots\dots$

(6) The right-angled triangle has $\dots\dots\dots$ altitudes.

(7) $38.76 + 25.38 = \dots\dots\dots$

(8) When tossing a coin once, then the probability of appearing a tail = $\dots\dots\dots$

3 Answer the following :

(1) An owner of packing food factories wanted to pack 2952 kilograms of sugar equally in 123 packs. What is the weight of each pack ?
 $\dots\dots\dots$

(2) If $X = \{1, 2, 3, 4\}$, $Y = \{2, 4, 6, 8\}$ Find : $X - Y$
 $\dots\dots\dots$

(3) A box contains identical balls where 5 white balls, 9 red balls and 6 black balls. What is the probability that the chosen ball is white ?
 $\dots\dots\dots$

(4) Draw the isosceles triangle ABC
in which $BC = 4$ cm. and
 $AB = AC = 6$ cm. , then draw $\overline{AD} \perp \overline{BC}$